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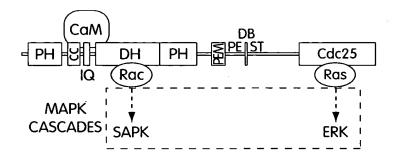


Fig. 1A

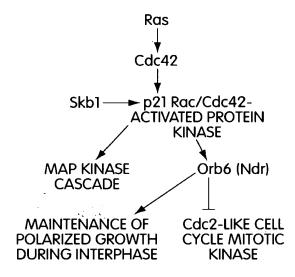


Fig. 1B

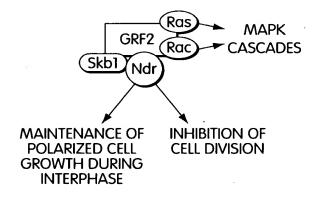
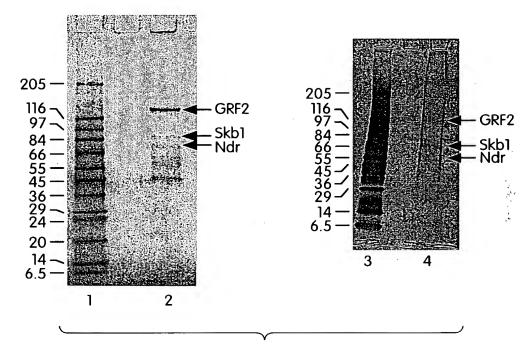


Fig. 1C



44

Fig. 2

PEPTIDE 40 (NUM. HITS = 92)

(1.0) 🖸	TVLDQVPVN	IPSLYLIK			(17.0)		
SYMBOL	MASS	a	a - 17	b	b - 17	l _y	y - 17
G, Gly	57.021	30.034	13.032	58.029	41.027	1856.053	1839.051
T, Thr	101.048	131.082	114.079	159.077	142.074	1799.032	1782.029
V, Val	99.068	230.150	213.148	258.145	241.143	1697.984	1680.981
L, Leu	113.084	343.235	326.232	371.229	354.227	1598.916	1581.913
D, Asp	115.027	458.261	441.259	486.256	469.254	1485.832	1468.829
Q, Gln	128.059	586.320	569.317	614.315	597.312	1370.805	1353.802
V, Val	99.068	685.388	668.386	713.383	696.381	1242.746	1225.743
P, Pro	97.053	782.441	765.439	810.436	793.433	1143.678	1126.675
V, Val	99.068	881.510	864.507	909.505	892.502	1046.625	1029.622
N, Asn	114.043	995.553	978.550	1023.547	1006.545	947.557	930.554
P, Pro	97.053	1092.605	1075.603	1120.600	1103.598	833.514	816.511
S, Ser	87.032	1179.637	1162.635	1207.632	1190.630	736.461	719.458
L, Leu	1113.084	1292.721	1275.719	1320.716	1303.714	649.429	632.426
Y, Tyr	163.063	1455.785	1438.782	1483.780	1466.777	536.345	519.342
L, Leu	113.084	1568.869	1551.866	1596.864	1579.861	373.282	356.279
I, Ile	113.084	1681.953	1664.950	1709.948	1692.945	260.197	243.195
K, Lys	128.095	1810.048	1793.045	1838.043	1821.040	147.113	130.111

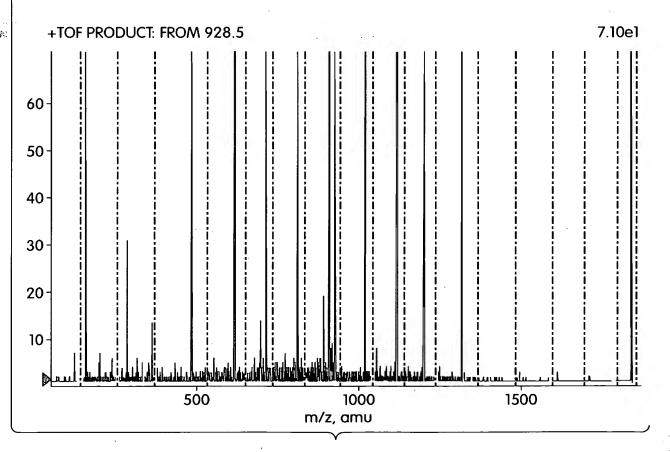


Fig. 3A

PEPTIDE 39 (NUM. HITS = 57)

(1.0)	VSALEVLPDR	?			(17.0)		
SYMBOL	MASS	a	a - 17	b	b - 17	у	y - 17
V, Val S, Ser A, Ala L, Leu E, Glu V, Val L, Leu P, Pro D, Asp R, Arg	99.068 87.032 71.037 113.084 129.043 99.068 113.084 97.053 115.027 156.101	72.081 159.113 230.150 343.235 472.277 571.346 684.430 781.482 896.509 1052.610	55.079 142.111 213.148 326.232 455.274 554.343 667.427 764.480 879.507 1035.608	100.076 187.108 258.145 371.229 500.272 599.340 712.424 809.477 924.504 1080.605	83.074 170.106 241.143 354.227 463.269 582.338 695.422 792.475 907.502 1063.603	1098.616 999.547 912.515 841.478 726.394 599.352 500.283 387.199 290.146 175.119	1081.613 982.545 895.513 824.476 711.392 582.349 483.281 370.196 273.144 158.117

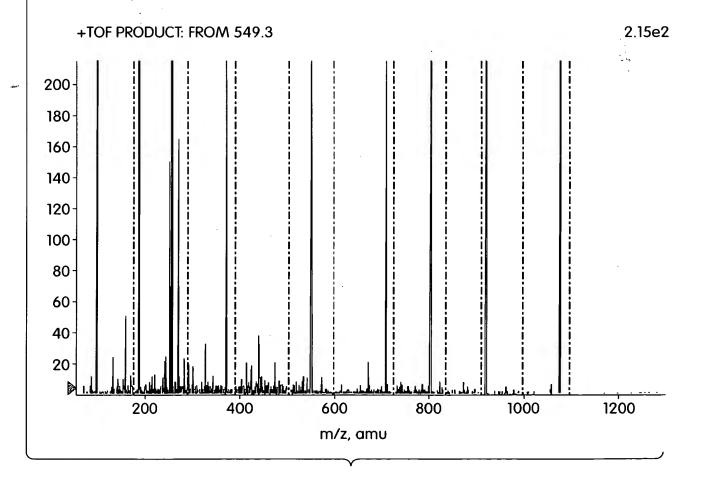


Fig. 3B

PEPTIDE 69 (NUM. HITS = 59)

(1.0)	VTDEDVFPTK	<u> </u>			(17.0)		
SYMBOL	MASS	а	a - 17	b	b - 17	у	y - 17
L, Lue V, Val T, Thr D, Asp E, Glu D, Asp V, Val F, Phe P, Pro T, Thr K, Lys	113.084 99.068 101.048 115.027 129.043 115.027 99.068 147.068 97.053 101.048 128.095	86.097 185.165 286.213 401.240 530.283 645.310 744.378 891.446 988.499 1089.547 1217.642	69.094 168.163 269.210 384.237 513.280 628.307 727.375 874.444 971.496 1072.544 1200.639	114.092 213.160 314.208 429.235 558.277 673.304 772.373 919.441 1016.494 1117.542 1245.637	97.089 196.158 297.205 412.232 541.275 656.302 755.370 902.439 999.491 1100.539 1228.634	1263.647 1150.563 1051.495 950.447 835.420 706.378 591.351 492.282 345.214 248.161 147.113	1246.645 1133.560 1034.492 933.444 818.418 689.375 574.348 475.279 328.211 231.158 130.111

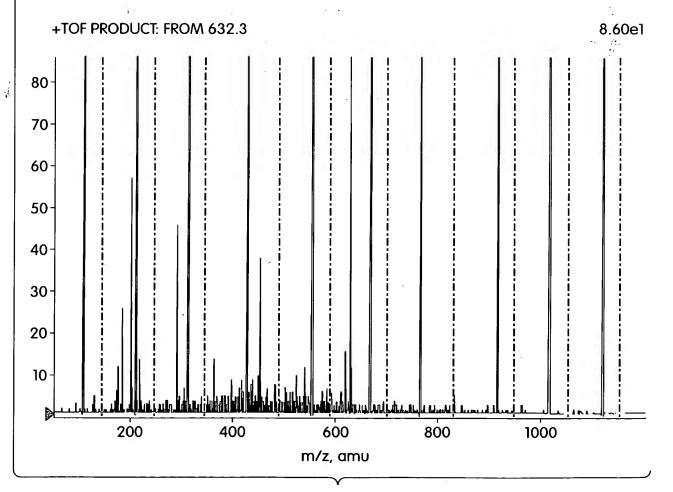


Fig. 4A

PEPTIDE	71 (NI	IM HIT	$\Gamma S = 591$
	/ I II V	<i>JI</i> V 1. I II I	

(1.0) <u>E</u>	FPSSFESLVR				(17.0)		
SYMBOL	MASS	а	a - 17	b	b - 17	у	y - 17
E, Glu F, Phe P, Pro S, Ser S, Ser F, Phe E, Glu S, Ser L, Leu V, Val R, Arg	129.043 147.068 97.053 87.032 87.032 147.068 129.043 87.032 113.084 99.068 156.101	102.056 249.124 346.177 433.209 520.241 667.309 796.352 883.384 996.468 1095.536 1251.637	85.053 232.121 329.174 416.206 503.235 650.307 779.349 866.381 979.465 1078.534 1234.635	130.050 277.119 374.172 461.204 546.236 695.304 824.347 911.379 1024.463 1123.531 1279.632	113.048 260.116 357.169 444.201 531.233 678.301 807.344 894.376 1007.460 1106.528 1262.630	1297.643 1168.600 1021.532 924.479 837.447 750.415 603.346 474.304 387.272 274.188 175.119	1280.640 1151.597 1004.529 907.476 820.444 733.412 586.344 457.301 370.269 257.185 158.117

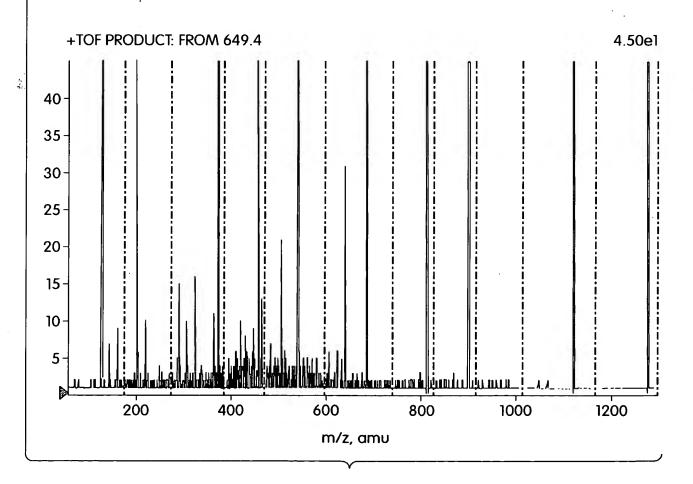


Fig. 4B

- 1 MRKETPPPLV PPAAREWNLP PNAPACMERQ LEAARYRSDG ALLLGASSLS
- 51 GRCWAGSLWL FKDPCAAPNE GFCSAGVQTE AGVADLTWVG ERGILVASDS
- 101 GAVELWELDE NETLIVSKFC KYEHDDIVST_VSVLSSGTQA VSGSKDICIK
- 151 VWDLAQQVVL SSYRAHAAQV TCVAASPHKD SVFLSCSEDN RILLWDTRCP
- 201 KPASQIGCSA PGYLPTSLAW HPQQSEVFVF GDENGTVSLV DTKSTSCVLS
- 251 SAVHSQCVTG LVFSPHSVPF LASLSEDCSL AVLDSSLSEL FRSQAHRDFV
- 301 RDATWSPLNH SLLTTVGWDH QVVHHVVPTE PLPAPGPASV TE

Fig. 5

Protein Translation of MOB-related protein EST GI 705582

- 1 HHLGVLHRRD VSDDGRVHNK YYWYDERGKK VKCTAPQYVD FVMSSVQKLV TDEDVFPTKY
- 61 GREFPSSFES LVRKICRHLF HVLAH

MOB-related Hypotetical Protein GI 8922671

- 1 MSFLFSSRSS KTFKPKKNIP EGSHQYELLK HAEATLGSGN LRQAVMLPEG EDLNEWIAVN
- 61 TVDFFNQINM LYGTITEFCT EASCPVMSAG PRYEYHWADG TNIKKPIKCS APKYIDYLMT
- 121 WVQDQLDDET LFPSKIGVPF PKNFMSVAKT ILKRLFRVYA HIYHQHFDSV MQLQEGAHLN
- 181 TSFKHFIFFV QEFNLIDRRE LAPLQELIEK LGSKDR

Spindlin GI 5730065

- 1 MQAMLEVSAN MMKKRTSHKK HRSSVGPSKP VSQPRRNIVG CRIQHGWKEG NGPVTQWKGT
- 61 VLDQVPVNPS LYLIKYDGFD CVYGLELNKD ERVSALEVLP DRVATSRISD AHLADTMIGK
- 121 AVEHMFETED GSKDEWRGMV LARAPVMNTW FYITYEKDPV LYMYQLLDDY KEGDLRIMPD
- 181 SNDSPPAERE PGEVVDSLVG KQVEYAKEDG SKRTGMVIHQ VEAKPSVYFI KFDDDFHIYV
- 241 YDLVKTS

Fig. 6

		* 20 * 40		
gi3342738	:		:	-
gi10435124	:		:	-
EST705582	:		:	_
gi11414881	:		:	_
gi10432886	:		:	_
gi10435207	:		:	-
gi8922671	:		:	-
ScMob1	:	MSFLQNFHISPGQTIRSTRGFKWNTANAANNAGSVSPTKAT	:	41
spMob1	:		:	_
-				
		* 60 * 80		
gi3342738	_	* 60 * 60		_
gi10435124	•		:	_
EST705582	•		•	_
gi11414881	•		•	_
gi10432886	•		:	_
gi10435207	•		:	_
gi8922671	•		•	_
ScMob1	•	PHNNTINGNNNNANTINNRADFTNNPVNGYNESDHGRMSPV	•	82
spMob1	•	FAMILINGINIMAMI IMMRADE IMME VINGINESDIIGRESE	:	02
врмові	•		•	
				3.* - 1.
		* 100 * 120		ž.,
gi3342738	:	KSRRAGVTKMSNPFLKQVFNKDKEFEREREPETQ	:	36
gi10435124	:	KS-IALKQVFNKDK#F###RKFEP@TQ	:	26
EST705582	:		:	-
gi11414881				
-110422006	:	KDMLMGKSKAKPNGKKPAAEER	:	22
gi10432886	:	KSTLESSRSSKIFKEKNIPEESH	:	24
gi10435207	:	MSPLESSRSSK FREKKNIPEGSH MSPLLSSRSSK FKEKKNIPEGSH	:	24 24
gi10435207 gi8922671	:	MSTLESSRSSKRFKRKNIPEGSH MSTLLSSRSSKRFKRKNIPEGSH MSTLESSRSSKRFKRKNIPEGSH	:	24 24 24
gi10435207 gi8922671 ScMob1	: : : : : : : : : : : : : : : : : : : :	MSTLESSRSK FREKKNIPEGSHMSELLSSRSSK FREKKNIPEGSHMSELLSSRSSK FREKKNIPEGSHMSELESSRSSK FREKKNIPEGSH LTTPKRHAPPPEQLQNVTDENYEPSHQKPFLQPQAGTTVTT	: : : : : : : : : : : : : : : : : : : :	24 24 24 123
gi10435207 gi8922671	: : : : :		:	24 24 24
gi10435207 gi8922671 ScMob1	: : : : :	MSTLESSRSK FREKKNIPEGSHMSELLSSRSSK FREKKNIPEGSHMSELLSSRSSK FREKKNIPEGSHMSELESSRSSK FREKKNIPEGSH LTTPKRHAPPPEQLQNVTDENYEPSHQKPFLQPQAGTTVTT	:	24 24 24 123
gi10435207 gi8922671 ScMob1	: : : : : : : : : : : : : : : : : : : :		•	24 24 24 123
gi10435207 gi8922671 ScMob1 spMob1		MSELESSRSK FROKKNIPEGSHMSELLSSRSSK FKOKKNIPEGSHMSELESSRSSK FKOKKNIPEGSH LTTPKRHAPPPEQLQNVTDENE PSHOKPELQPQAGTTVTT	• • • • • • • • • • • • • • • • • • • •	24 24 24 123
gi10435207 gi8922671 ScMob1 spMob1			:	24 24 24 123 22
gi10435207 gi8922671 ScMob1 spMob1		MSELESSRSK FREKKNIPEGSHMSELLSSRSSK FREKKNIPEGSH	:	24 24 24 123 22
gi10435207 gi8922671 ScMob1 spMob1 gi3342738 gi10435124 EST7.5582			: : : : : : : : : : : : : : : : : : : :	24 24 24 123 22
gi10435207 gi8922671 ScMob1 spMob1 gi3342738 gi10435124 EST7.5582 gi11414881				24 24 24 123 22 77 67
gi10435207 gi8922671 ScMob1 spMob1 gi3342738 gi10435124 EST7.5582 gi11414881 gi10432886				24 24 24 123 22 77 67 - 63
gi10435207 gi8922671 ScMob1 spMob1 gi3342738 gi10435124 EST7.5582 gi11414881 gi10432886 gi10435207	:			24 24 24 123 22 77 67 - 63 64
gi10435207 gi8922671 ScMob1 spMob1 gi3342738 gi10435124 EST7.5582 gi11414881 gi10432886 gi10435207 gi8922671	:			24 24 24 123 22 77 67 63 64 64
gi10435207 gi8922671 ScMob1 spMob1 gi3342738 gi10435124 EST7.5582 gi11414881 gi10432886 gi10435207	:			24 24 24 123 22 77 67 - 63 64 64 64

Fig. 7

```
200
                                 180
gi3342738
                FNRVNLIYGTISDGCTEOSCPNMSGERRYEYRWODEHKFRK
                                                                        118
                FNRINLIYGTICEFCTERTCPYMSCERKYEYRWODDLKY
qil0435124 :
                                                                         108
                -HHLGVLHR-----RDVSDDG-RVHN-KYYWYDER
EST705582
                                                                          29
                FHHINLOYSTISEFCTGETCOIM-MYCNTQYYWYDER
gi11414881 :
                                                                         101
                FNOINMLYGTITEFCTEASCPYMSAGPRYEYHWADGTNIKK
FNOINMLYGTITEFCTEASCPYMSAGPRYEYHWADGTNIKK
                                                                         105
gil0432886 :
gi10435207 :
                                                                         105
                FNOINMLYGTITEFCTEASCPMSACRRYEYHWADGTNIKK
YNOINMLYGSITEFCSPOTCPRMIATINEYEYLWAFQK-GQP
YTOINMLYGTITEFCTAASCPOMNAGPSYEYYWODDKIYTK
gi8922671
                                                                        105
ScMob1
                                                                      : 204
spMob1
                                                                      : 103
                                                    y Y W d
                    6n6 yg i efc
                                         cp m
                                220
                PTALSAPRYMDILMOWIEA@INNEDLEPTNVGTPFDENFIO
PTALPAPOYMNILMOWIEV@INNEEIFPTCVGVPFPENFIO
gi3342738
                                                                        159
gi10435124 :
              : KWKCTAPOYVDEVMSSVOKLVIDEDVFPTKYGREFPSSFES
: KWKCTAPOYVDEVMSSVOKLVIDEDVFPTKYGREFPSSFES
EST705582
                                                                          70
gi11414881 :
                     SAPKYIDWLMWWQD@LDDE<mark>T</mark>LFPSKIG
gi10432886 :
                                                                         137
                  EVESAP KYIDYLMEWVOD OLDDETLFPSKIG<mark>VPFPKYFYS</mark>
KRESAP KYIDYLMEWVOD OLDDETLFPSKIGVPFPKYFYS
SVSAP KYVECLMEWCOD ODDESLFPSKVTGTFPEGF 19
gi10435207
                                                                         146
qi8922671
ScMob1
                                                                         245
spMob1
                PTRMSAPDYINNLLDWIQEKLDDKKLFPTEIGVEFPRAFRK
                       AP Y6
                                             le 6FP3
                                                                           260
                                                        280
                -TVRKIISRLFRVTVHVYIHHFDREAQMGSEAHVNTCYR
                                                                         199
gi3342738
                 -ICKKIECRLFRV VHVY THHFRRV VMGABAHVNTCYKHF
gi10435124 :
                                                                         189
                 - LVRKICRHUEHVLAH
EST705582
                                                                          85
                    RKICRHIFHVLÄHIYWAHFKETTALELHGHUNTLYVHF
                                                                         182
gi11414881:
gi10432886
                                                                        146
                -VAKTIKRLERVAHIYHOHEDSVAOLQEEAHLNTS
-VAKTIKRLERVAHIYHOHEDSVAOLQEGAHLNTS
RVIOPIERRLERVAAHIYCHHENE 4 ELNLOTVLNTS
gi10435207
                                                                        186
gi8922671
                                                                        186
ScMob1
                                                                         286
                 ·V#QQIFRRLFRIYAHIYCSHFHVMVAMELESYLNT
spMob1
                                                                         184
                                   h y
                                                       320
                             300
                   FVKEEGUIETKELEELVRGLGAEGVRNHQVRHLEPPGEG:
gi3342738
gi10435124 :
EST705582
gi11414881 :
                                                                         199
                FE-----
gi10432886 :
                gi10435207 :
gi8922671
ScMob1
                VEECREGIMENKEYAR ..... 201
spMob1
                      e
```

Fig. 7 Cont.

		* 3	40		*	360		
gi3342738	:	PPSRALKELH	EĮ.	RNCLMKCI	SLYLEDE	AQTPTPLSPPGLGM	:	281
gi10435124	:	IKMT					:	216
EST705582	:			-			:	_
gi11414881	•	M DD T T	FV	CSGAGGV	HSGGSGD	GAGSGGPGAQNHVK	:	235
gi10432886	•		- · ,				•	
gi10435207	:	7 0607	EK	GSKDR			:	216
gi8922671	:	- 5/2	- 1	GSKDR			:	216
ScMob1	:						:	314
spMob1	:	MODLV	,	M3			:	210
SPHODI	•		US	MA			•	210
		*						
gi3342738	:	* SPAARPRSFP	:	291				
gi3342738 gi10435124	:	* SPAARPRSFP	:	291 -				
	:	* SPAARPRSFP	:	291 - -				
gi10435124 EST705582	:	* SPAARPRSFP ER	:	291 - - 237				
gi10435124 EST705582 gi11414881	:		:	-				
gi10435124 EST705582 gi11414881 gi10432886	:		: : : : : : : : : : : : : : : : : : : :	-				1950 1950 1950
gi10435124 EST705582 gi11414881 gi10432886 gi10435207	:		•	-				
gi10435124 EST705582 gi11414881 gi10432886 gi10435207 gi8922671	:			-				
gi10435124 EST705582 gi11414881 gi10432886 gi10435207	:		: : : : : : : : : : : : : : : : : : : :	-				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Fig. 7 Cont.

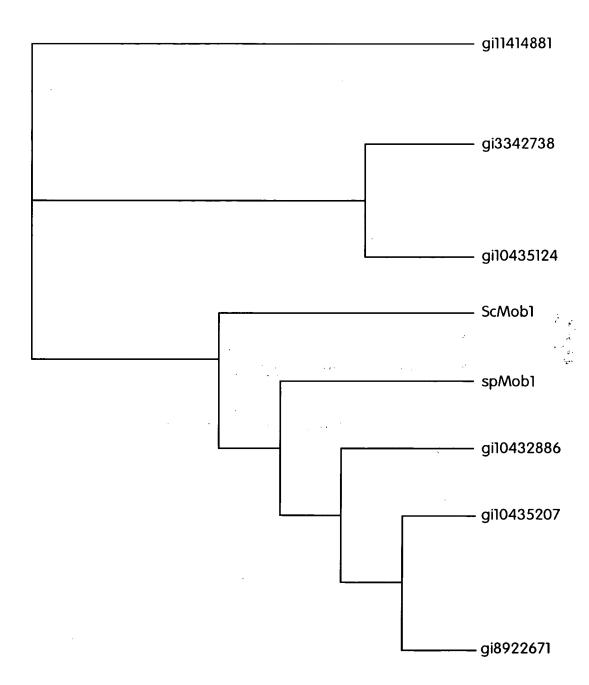
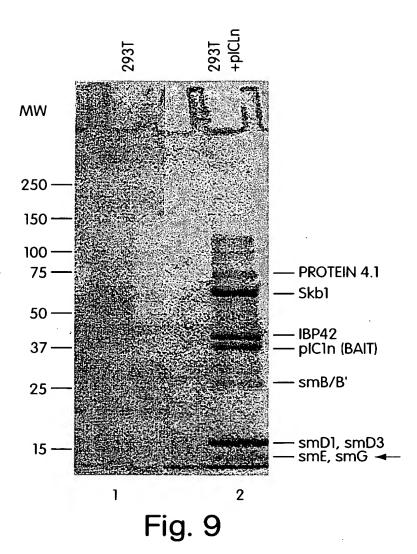


Fig. 8



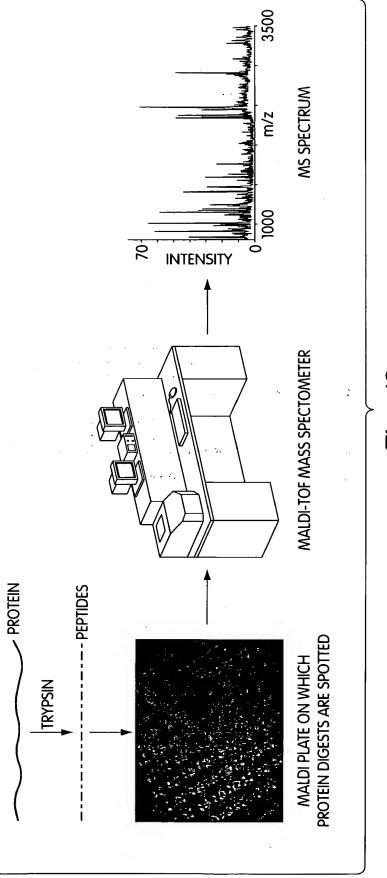


Fig. 10

- 1. EXCISE THE SPOT/BAND OF INTEREST, CUT THE FRAGMENT INTO SMALLER PIECES.
- 2. SHRINK THE GEL PIECES IN ACETONITRILE FOR APPROX. 10 MIN. REMOVE EXCESS "ACETONITRILE, AND DRY UNDER VACUUM WITH CENTRIFUGATION (SpeedVac).
- 3. COVER GEL PIECES WITH 10mM DITHIOTHREITOL (DTT) IN 50-100mM 4HCO3.
- 4. COOL TO ROOM TEMP, REMOVE DTT SOLUTION AND ADD EQUAL VOLUME OF 55 mm iodoacetamide in 50-100 mm $\rm NH_4HCO_3$. Incubate for 45 min in dark with occasional stirring.
- 5. RINSE THE GEL WITH 50-100 μ l ALIQUOTS OF 50-100 mM NH₄HCO $_3$ FOR 10 MIN AND REMOVE EXCESS.
- 6. SHRINK THE GEL WITH ACETONITRILE FOR 10 MIN AND REMOVE EXCESS.
- 7. SWELL THE GEL WITH 50-100 mM $\mathrm{NH_4HCO_3}$, AND SHRINK AGAIN WITH ACETONITRILE.
- 8. REMOVE EXCESS LIQUID AND DRY DOWN USING A SpeedVac.
- 9. SWELL GEL PIECES AT 4°C FOR 45 MIN IN BUFFER CONTAINING TRYPSIN AND 50 mM NH₄HCO₃. (APPROX. 5 μ L/mm² GEL). THE GEL PIECES SHOULD JUST BE COVERED. (TRYPSIN SOLUTION AT 12.5 ng/ μ L IS TYPICALLY USED FOR SILVER STAINED GELS).
- 10.DIGEST OVERNIGHT AT 37°C (OR AT LEAST FOR 3 H).
- 11. CENTRIFUGE GEL PIECES AND COLLECT SUPERNATANT
- 12. FURTHER EXTRACT PEPTIDES BY ONE CHANGE OF 20 mM NH₄HCO₃ FOLLOWED BY CENTRIFUGATION AND POOL SUPERNATANT.
- 13. FURTHER EXTRACT WITH THREE CHANGES OF 5% FORMIC ACID IN 50% ${\rm CH_3CN}$ (20 MIN BETWEEN CHANGES) AT ROOM TEMP.
- 14. DRY SAMPLE DOWN IN SpeedVac UNTIL DESIRED VOLUME HAS BEEN REACHED OR TO DRYNESS.

Fig. 11

DESALTING:

- 1. THE SAMPLE (STEP 14 IN TABLE 1.0) SHOULD BE EITHER (a) RESUSPENDED IN 5% (v/v) METHANOL AND 5% (v/v) FORMIC ACID OR (b) AT LEAST ACIDIFIED BY THE ADDITION OF FORMIC ACID.
- 2. WASH ZipTips (MILLIPORE) BY PIPETTING IN AND OUT OF THE TIP THREE ALIQUOTS OF 60% (v/v) METHANOL AND 5% (v/v) FORMIC ACID SOLUTION.
- 3. EQUILIBRATE THE TIPS WITH 5% (v/v) METHANOL AND 5% (v/v) FORMIC ACID.
- 4. EXTRACT THE ANALYTES FROM THE SAMPLE BY PIPETTING IT UP AND DOWN 10 TO 20 TIMES.
- 5. WASH THE TIP WITH A SOLUTION OF 5% (v/v) METHANOL AND 5% (v/v) FORMIC ACID.
- 6. ELUTE THE ANALYTES OFF THE TIP USING (3ul) OF A SOLUTION OF 60% (v/v) METHANOL AND 5% (v/v) FORMIC ACID.

APPLICATION TO MALDI PLATE:

- 1. PREPARE A FRESH SATURATE SOLUTION OF α -CYANO-4-HYDROXY-CINNAMIC ACID (DOUBLY RE-CRYSTALLIZED) IN 50% (v/v) ACETONITRILE 0.3% (v/v) TRIFLUOROACETIC ACID.
- 2. TAKE 0.5 μ l of sample (eluent in step 6 of the desalting protocol) and pipet onto one position on the maldi plate.
- 3. IMMEDIATELY ADD 0.5 μ I OF THE SATURATE MATRIX SOLUTION (FROM STEP 1) AND ALLOW TO AIR DRY FOR AT LEAST 5 MINUTES.
- 4. REPEAT THE PROCESS FOR ALL SAMPLES.
- 5. INSTALL THE PLATE IN THE MALDI-TOF MS.



Fig. 13A

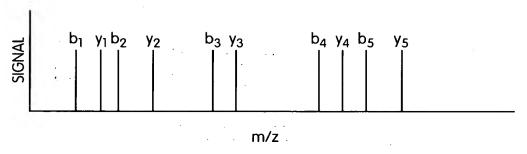


Fig. 13B

$$R_1$$
 R_2
 R_3
 R_1
 R_2
 R_3
 R_3
 R_4
 R_4
 R_5
 R_5

Fig. 13C

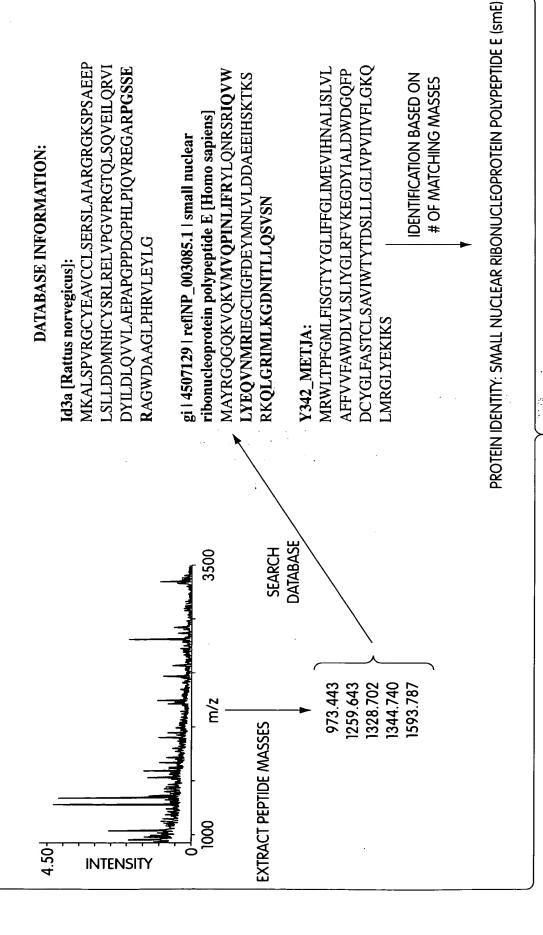


Fig. 14

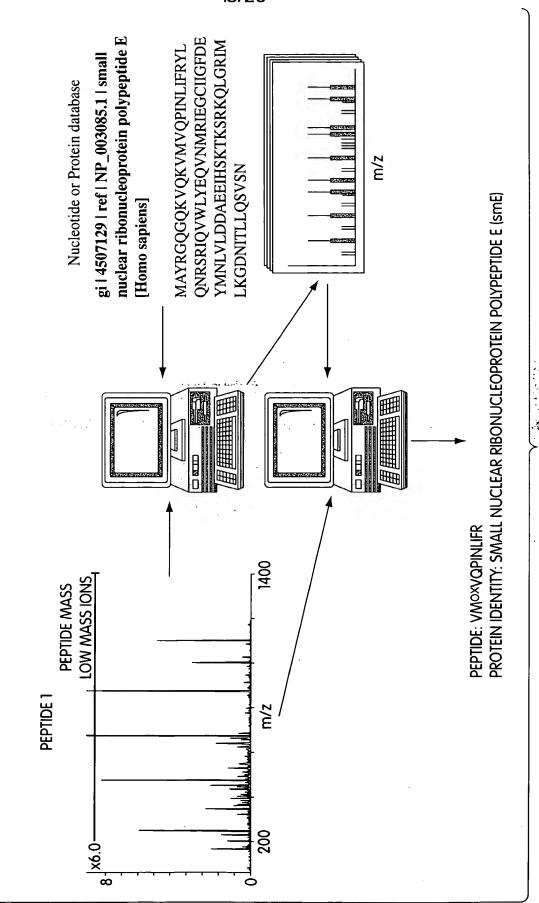
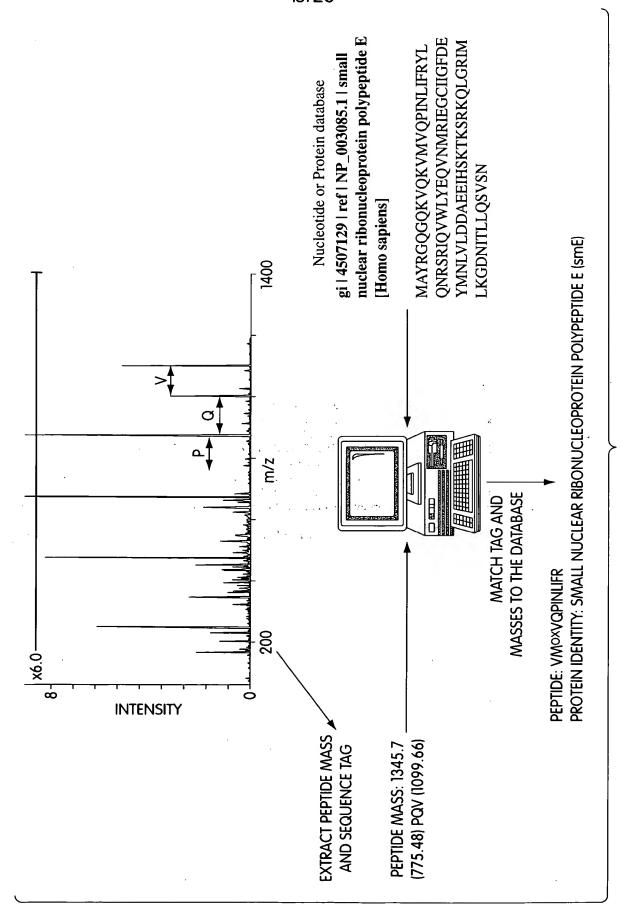


Fig. 15

遊馬と母と気をなってい

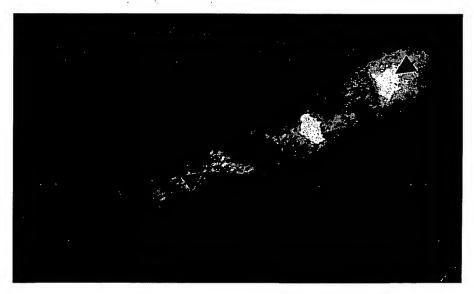


-ig. 16



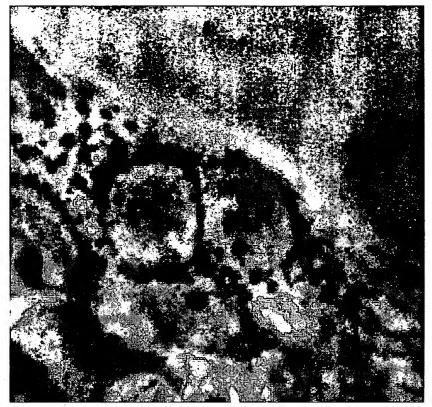
PHASE CONTRAST

Fig. 17A

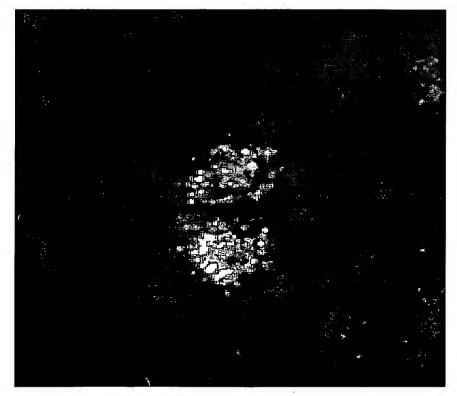


N-FLAG/Skb1

Fig. 17B



PHASE CONTRAST Fig. 18A



ENDOGENOUS SKET Fig. 18B

HEK293 CELLS

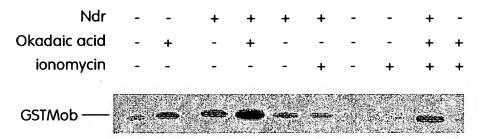


Fig. 19A

CLONE13

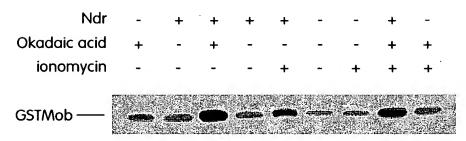


Fig. 19B

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		*	20	*	40		
gi13543922 AF258661	:			- ,		:	-
	:					:	-
sudD	:					:	-
RIO1						:	4.1
HssudD	:	MDLVGVASPEPG				:	41
FLJ11159	:					•	_
		_	60	*	80		
gi13543922			60				5
AF258661	•				MSKV V	•	_
sudD	•			1	MSSDSTTOA	•	9
RIO1	:			- 		:	_
HssudD		QLAKELQLEEEA	AVFPEVAVA	EGPFITGENID:	rssdlmlaq	:	82
FLJ11159	:				MGKVNV	:	6
				_			
		*	100		120		. :
gi13543922	:	PGQFDDADSSDS	ENRDLKTVK	EKDDILFEDLQI	ONVNENGEG	:	46
AF258861						:	-
sudD	:	ASPAEGLNPSHT	YVPNKGYAN	EDGAVPAMAGQI	OLTPEDEDY	:	50
RIO1	:					:	-
HssudD		MLQMEYDREYDA	-			:	123
FLJ11159	:	AKLRYMSRDDFR	VLTAVEMGM	KNHEIVPGSLIZ	ASIASLKHG	:	47
			7.40	<u>.</u>	160		
-112542022	_	EIEDEEEEGYDD		*		_	86
AF258661				G-VGKLARGIVI	VNGGSNPQA	:	-
sudD		EGDEYYDDIFEE		מאדט ארד. זרו א עא דו	ODDWNET.A	•	91
RIO1		EGDETIDDIFEE	ELDEGDENS,	ONFADDIKAIN	NOUNT THE PARTY	:	
HssudD	-	DSDSSEDEVDWQ	DTRDDPYRP	AKPVPTPKKGF	ICKCKDTTT	•	164
FLJ11159	:	GCNKVLRELVKH				:	88
		*	180	*	200		
gi13543922	:	NRQTSDSSSAKM	STPADKVLR	KFENKINLDKLI	NVTDSVIN	:	127
AF258661	:					:	-
sudD		ADPNAPKWTYPK				:	132
RIO1		MSLE				:	33
HssudD	:	KHDEVVCGRKNT				:	205
FLJ11159	:	SSRQVVESVGNQ	MGVGKESDI	YIVANEEGQQF	ALKLHRLG	:	129

Fig. 20

gi13543922 AF258661 sudD RIO1 HssudD FLJ11159	* 220 : VTEKSRQKEADMYRIKDKADRAEVEQVEDER : LDNVQSGLAVRGGSGTDRADRATSEQVEDER : TDELSFSRAKTSKDKANRAEVENVEDER : LKQHAYSEERRSARLHEKKEHSEAEKAVDER : TSFRNLKNKRDYHKYRHNVSWLYLSRESAMK	RMILLOMEN: 173 MRFLKSMYT: 71 RRLLMYKMYN: 246
gi13543922 AF258661 sudD RIO1 HssudD FLJ11159	* 260 * 260	IDEETGQYEV : 112
gi13543922 AF258661 sudD RIO1 HssudD FLJ11159	* 300 * 32 :ANGESRATKIYKISILVEKORDKYVSGI : DDFDAAPIHRATKVYKISILVEKORDKYVIGI : LETDGSRAEYATKIYKISILVEKORERAVDGI : EDSKVIPTECATVFKITLNEENROKYTKDI : PLCQIHHVEDPASVYDEAMERIVKLANHGLII	DERFRSGYNK: 241 DERFRNSRSQ: 153 DERFRDRFSK: 318
gi13543922 AF258661 sudD RIO1 HssudD FLJ11159	* 340 * 360 : GNPRKMVKTWAEKEMENLIRLN-TAEIPGPE :MVKTWAEKEMENLIRLN-TAEIPGPE : SNNRAMVKEWAEKEMENLERIY-AAGIPGPE : HNPRKMIK WAEKEFENLKRIYQSGVIPAPK : LNPRKIHR WAEKEMHNLARMQ-RAGIPGPTV : LDESDHITMIDFPOMVSTSHPNAEWYFDRI Waek2m nl r a ip p	IMLRSTVLV : 269 IMLRSTVLV : 35 INLRLTVLV : 281 IEVKNNVLV : 194 VVLLKKILLV : 358
gi13543922 AF258661 sudD RIO1 HssudD FLJ11159	* 380 * 400 : MFFICKDD-MPAPILKNVQLSESKARD : MSFICKDD-MPAPILKNVQLSESKARD : MSFICKDD-MPAPILKNVQLSESKARD : MSFICKDD-MPAPILKDVDFNISDPESKWRD : MSFICHDQ-MPAPKLKDVKLNSEEMKE : KRFSYESELFPTFKDIRREDTLD m F P 1K	Y OVIOYMR : 71 Y DMLGYMR : 322 Y HTWVAYMR : 232

Fig. 20 Cont.

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420
                                                                            440
gi13543922 : RMY@DARLVH-ADLSEFNMLYHGGGVYIIDVSQSVEHDHPH : 345
AF258661 : RMY@DARLVH-ADLSEFNMLYHGGGVYIIDVSQSVEHDHPH : 111
sudD : VMY@TCHLVH-ADLSEYNTLWHNDKLYVIDVSQSVEHDHPR : 362
RIO1 : LLY@VCRLVH-ADLSEYNTIVHDDKLYMIDVSQSVEPEHPM : 272
HSSUDD : OLYHECTLVH-ADLSEYNMLMHAGKVWLIDVSOSVEPTHEH : 434
FLJ11159 : EMOADDELLHPLGPDDKNETKEGSESFSDGEVAEKAEVY : 348
                                                                          5 idvs2svE hp
                                      L6H adlse N
                                                              h
                                    460
                                                                          480
gi13543922 : ALEFLE-KDGANVN--DFFMRHSVAVMT-VRELFEEVIDPS : 382
AF258661 : ALEFLE-KDGANVN--DFFMRHSVAVMT-VRELFEEVIDPS : 148
sudD : SLEFLE-MDIKNVS--DFFRRKGVPTIS-ERVIFEEI---- : 395
RIO1 : SLDFLE-MDIKNVN--LYFEKMGISIFP-ERVIFOEVISET : 309
HssudD : GLEFLF-EDGRNVS--QFFOKGGVKEALSERELFNAVSGLN : 472
FLJ11159 : GSENESERNGLEESEGCYCRSSEDPEQIKEDSLSEESADAR : 389
                          lefl
                                             nv
gi13543922 : I HEN-MDAYESKAMEIAS ORTKEERS OD HODE OF KRAY : 422
AF258661 : ITHEN-MDAYESKAMEIASORTKEERSSODHVDEEVEKRAY : 188
sudd : ISAEG-PATVTDELRDAVEKLFSEPEAADEVDTAVERQQY : 435
RIO1 : LEKFKGDYNNISALVAY ASNLFTKSTEODEAEDETERSLH : 350
HssudD
                  : INADN-----EADFWARTEAREKMNEDHWOKNGRKAAS : 505
FLJ11159 : SFEMTEFNQALEEIKGQWVENNSWTEFSEEKNRTENWNRQD : 430
                                                                      560
FLJ11159
                    : GORVOGGWPAGSDEYEDECPHLIALSSLNREFR----- : 463
                                                                    600
gi13543922 : GLKKDLSGVØKVPALLENQVEER-TCSDSEDIGSSECSDTD : 503
AF258661 : GLKKDLSGVØKVPALLENQVEER-TCSDSEDIGSSECSDTD : 269
sudD : ----DLLAREKPSEPPDDEAETGSEVSGGVSEAESGSEDEE : 501
RIO1
HssudD
FLJ11159 : ----PFRDEENVGAMNQYRTRTLSITESGSAFSCETIPPEL : 500
```

Fig. 20 Cont.

		620	*		640	*		
gi13543922	:	SEEQGDHARP	KHTTDPI	IIC	OKKERKKM	KEAQREKRKNKEP	:	544
AF258661	:	SEEQGDHARP	KKHTTDPI	IIC	OKKERKKM	KEAQREKRKNKIP	:	310
sudD	:	ERDPFEKKPP	RGKRFEDI	Œ	SKKEHKNK	KEEKREKRANKMP	:	542
RIO1	:						:	-
HssudD	:			- -		<u>-</u> -	:	_
FLJ11159	:	VKQKVKRQLT	EQQKSAVI	RI	RLQKGEAN	FTKORRENMONEK	:	541
		660	*					
gi13543922	:	KHVKKRKEKT	AKTKKGK	:	561			
AF258661	:	KHVKKRKEKT	AKTKKGK	:	327			
sudD	:	KHIKKRLVSS	SSRKRK-	:	558			
RIO1	:			:	-			
HssudD	:			:	-			
FLJ11159	:	SSEEAASFWG	E	:	552			

Fig. 20 Cont.